

WHAT IS CLAIMED IS:

1        1.    A pipe connection comprising:  
2        a pin formed with an elongated thread section and a  
3        sealing surface, the elongated thread section including  
4        reverse locking pin threads along the entire length of the  
5        thread section;  
6        a box formed with box threads along an interior surface  
7        for direct engagement with pin threads of the thread  
8        section; and  
9        wherein the sealing surface forms a metal-to-metal seal  
10       with the box and the pin threads engage with the box threads  
11       along the entire length of the thread section for preventing  
12       the exacerbation of corrosion of the box threads.

1       2.    The pipe connection of claim 1, wherein the pin  
2       threads comprise:  
3       a pin thread front face oriented at a first  
4       predetermined angle; and  
5       a pin thread rear face oriented at a second  
6       predetermined angle.

1        3.    The pipe connection of claim 2, wherein the box  
2 threads comprise:

3        a box thread front face oriented at a substantially  
4 similar angle as the pin thread rear face; and

5        a box thread rear face oriented at a substantially  
6 similar angle as the pin thread front face.

1        4.    The pipe connection of claim 1, wherein the  
2 interior surface of the box and the sealing surface of the  
3 pin maintain continuous contact.

1        5.    The pipe connection of claim 2, wherein the first  
2 predetermined angle is 45°.

1        6.    The pipe connection of claim 2, wherein the first  
2 predetermined angle and the second predetermined angle are  
3 different.

1        7.    The pipe connection of claim 1, further comprising  
2 a dovetail arrangement for securing an end section of the  
3 box.

1           8.    The pipe connection of claim 1, wherein the pin  
2   threads are spaced equidistant from each other.

1           9.    The pipe connection of claim 1, wherein the  
2   sealing surface is substantially smooth.

1        10. A box adapted for use in a pipe connection, said  
2 box comprising:  
3        an interior surface for mating with a sealing surface  
4 of a pin;  
5        an elongated thread section forming reverse locking  
6 threads along the entire length of the thread section; and  
7        an end section for mating with a dovetail arrangement  
8 of the pin, wherein the interior surface forms a metal-to-  
9 metal seal with the sealing surface and the thread section  
10 engages with the pin along the entire length of the thread  
11 section, preventing the exacerbation of corrosion of the  
12 threads.

1        11. The box of claim 10, wherein the threads comprise:  
2        a front face oriented at a first predetermined angle;  
3 and  
4        a rear face oriented at a second predetermined angle.

1        12. The box of claim 11, wherein the second  
2 predetermined angle is 45°.

1        13. The box of claim 11, wherein the first  
2        predetermined angle and the second predetermined angle are  
3        different.

1        14. The box of claim 10, wherein the interior surface  
2        is substantially smooth.

1        15. An improved pin and box connection for tubular  
2 members of the type having a multi-groove helical thread  
3 with each groove having an entrant portion equidistant with  
4 adjacent groove entrant portions and with each groove  
5 including a negative draft load flank, wherein the  
6 improvement comprises the helical threads extending the  
7 entire length and including an end helical thread which  
8 abuttingly engages a box portion for creating a metal-to-  
9 metal seal along the entire length of the multi-groove  
10 helical thread and the end helical thread, preventing the  
11 exacerbation of corrosion of the helical thread and the end  
12 helical thread.